

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
24 March 2005 (24.03.2005)

PCT

(10) International Publication Number
WO 2005/026836 A2

(51) International Patent Classification⁷: **G03F 1/00**

(21) International Application Number:
PCT/JP2004/013003

(22) International Filing Date:
1 September 2004 (01.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003-322052 12 September 2003 (12.09.2003) JP

(71) Applicant (for all designated States except US): **TOKYO OHKA KOGYO CO., LTD.** [JP/JP]; 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa, 2110012 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TAKAGI, Toshiya** [JP/JP]; c/o **TOKYO OHKA KOGYO CO., LTD.**, 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa, 2110012 (JP). **FUJIMOTO, Takashi** [JP/JP]; c/o **TOKYO OHKA KOGYO CO., LTD.**, 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa, 2110012 (JP).

(74) Agent: **SAKAI, Hiroaki**; Sakai International Patent Office Tokyo Club Building, 2-6, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, 1000013 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AB, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CI, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PI, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/026836 A2

(54) Title: LAMINATED PHOTOSENSITIVE RELIEF PRINTING ORIGINAL PLATE AND METHOD FOR PRODUCING THE RELIEF PRINTING PLATE

(57) Abstract: A relief printing original plate including a substrate, a photosensitive resin layer thereon that is photosensitive to ultraviolet radiations, and a mask layer thereon having both ultraviolet and non-ultraviolet absorbatibility, the ultraviolet absorbatibility being deactivatable in response to receiving non-ultraviolet radiation. A method for producing a relief printing plate by using the original plate is also provided.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
24 March 2005 (24.03.2005)

PCT

(10) International Publication Number
WO 2005/026836 A3

(51) International Patent Classification⁷: G03F 1/00.
B41C 1/10

(21) International Application Number:
PCT/JP2004/013003

(22) International Filing Date:
1 September 2004 (01.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003-322052 12 September 2003 (12.09.2003) JP

(71) Applicant (for all designated States except US): TOKYO OHKA KOGYO CO., LTD. [JP/JP]; 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa, 2110012 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TAKAGI, Toshiya [JP/JP]; c/o TOKYO OHKA KOGYO CO., LTD., 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa, 2110012 (JP). FUJIMOTO, Takashi [JP/JP]; c/o TOKYO OHKA KOGYO CO., LTD., 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa, 2110012 (JP).

(74) Agent: SAKAI, Hiroaki; Sakai International Patent Office, Kasumigaseki Building, 2-5, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo 100-6019 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PI, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the International search report:
13 October 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/026836 A3

(54) Title: LAMINATED PHOTOSENSITIVE RELIEF PRINTING ORIGINAL PLATE AND METHOD FOR PRODUCING THE RELIEF PRINTING PLATE

(57) Abstract: A relief printing original plate including a substrate, a photosensitive resin layer thereon that is photosensitive to ultraviolet radiations, and a mask layer thereon having both ultraviolet and non-ultraviolet absorbability, the ultraviolet absorbability being deactivatable in response to receiving non-ultraviolet radiation. A method for producing a relief printing plate by using the original plate is also provided.